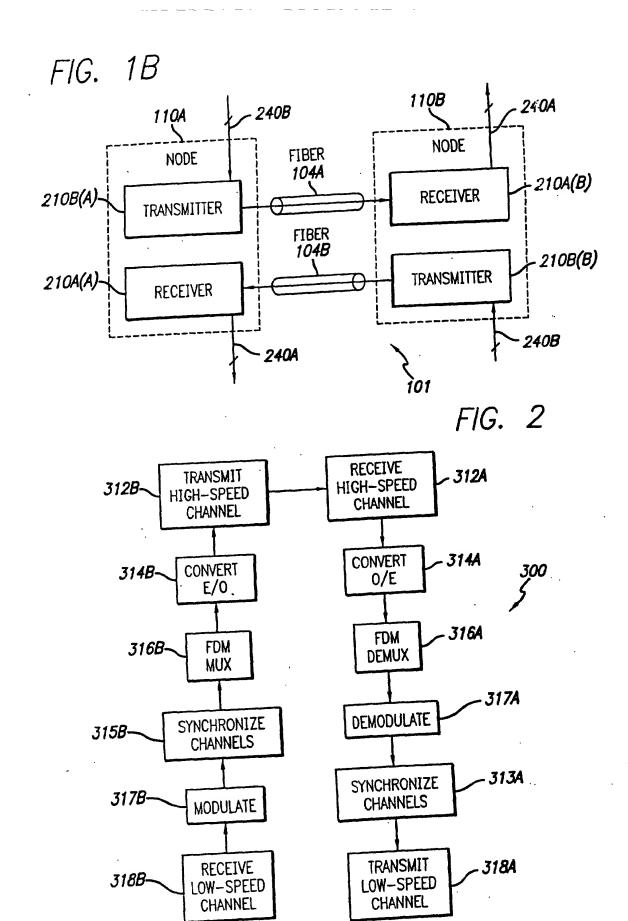


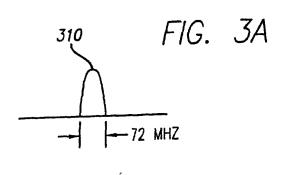
VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL

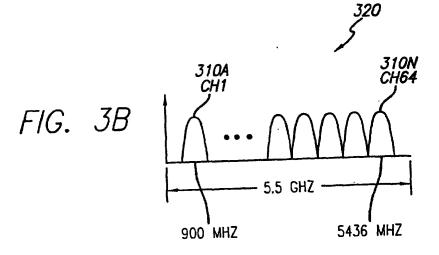
COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING

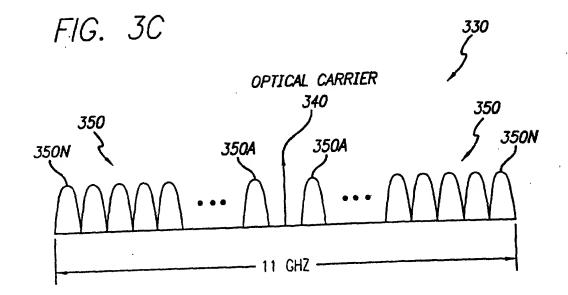
Docket No: 20852-05135

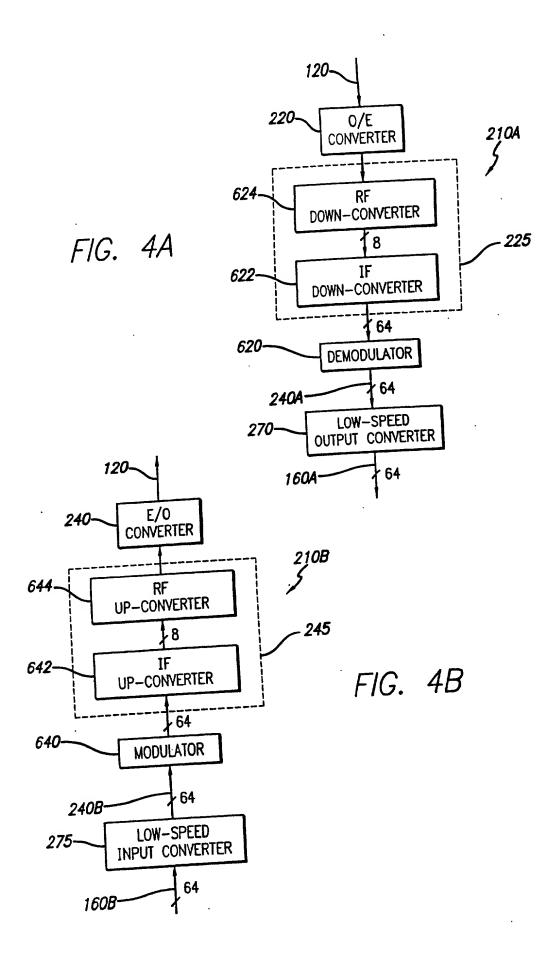


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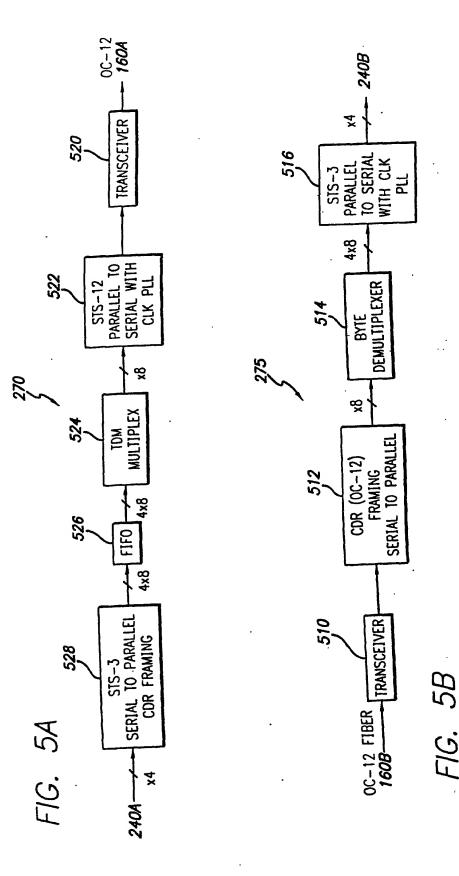








VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING Inventors: Shen, Clarke, Jr., Roman, Upham, Pechner and Newell Docket No.: 20852-05135



VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING Inventors: Shen, Clarke, Jr , Roman, Upham, Pechner and Newell

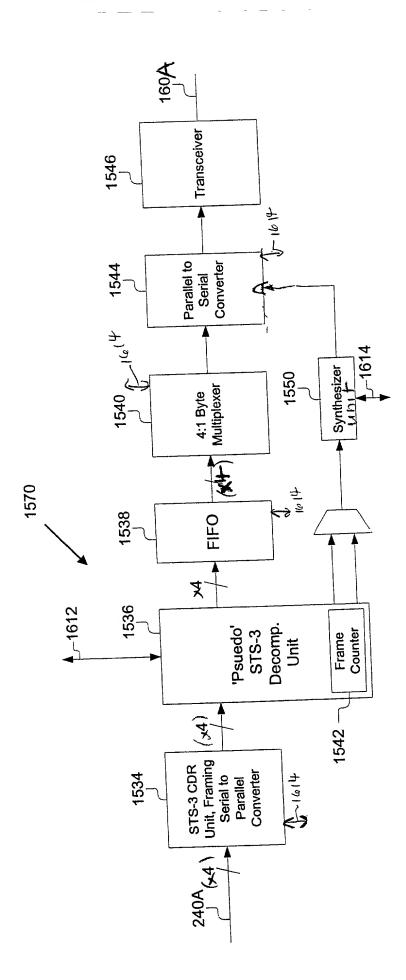
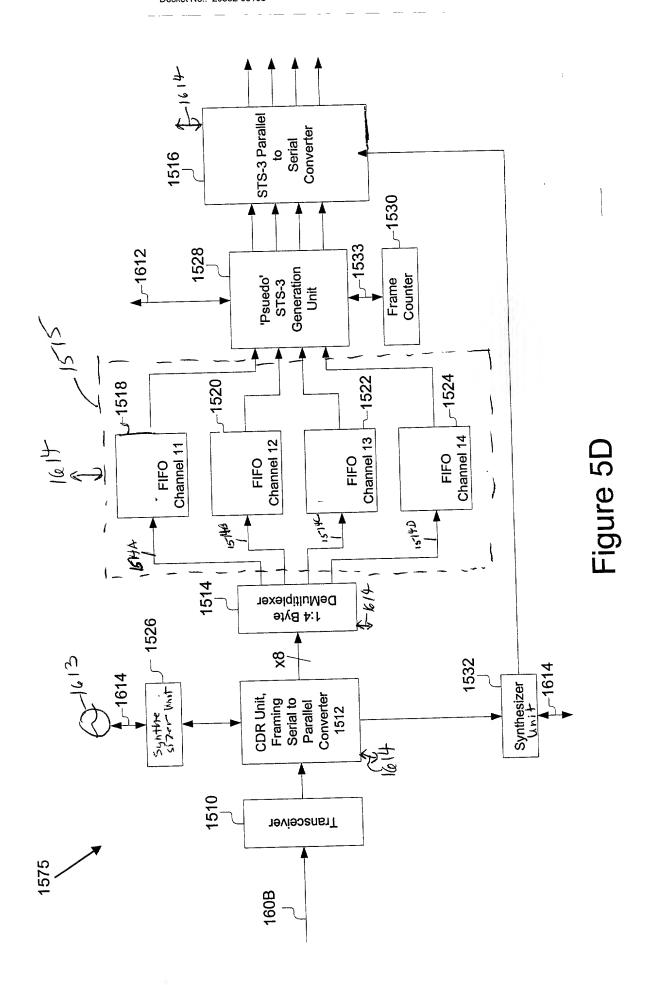


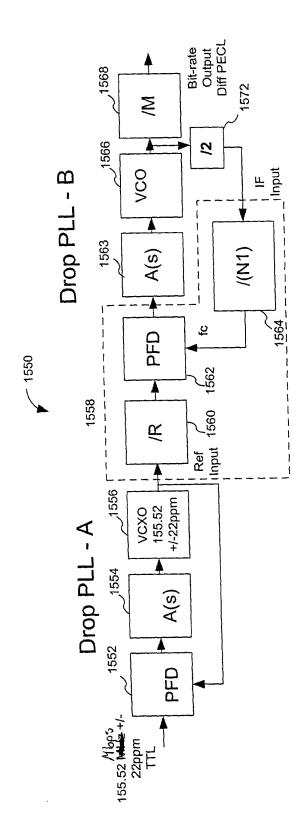
Figure 5C

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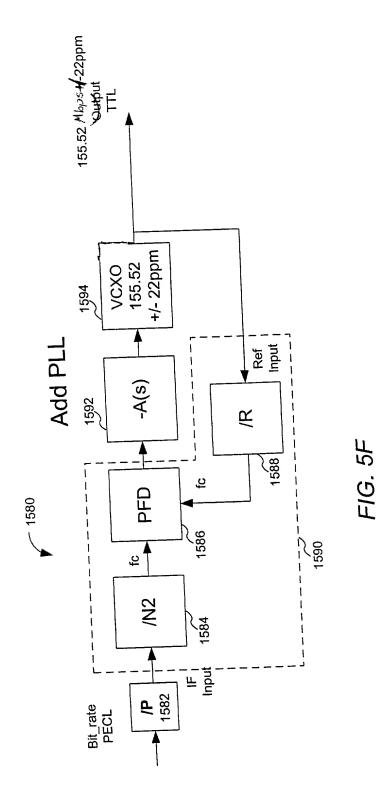


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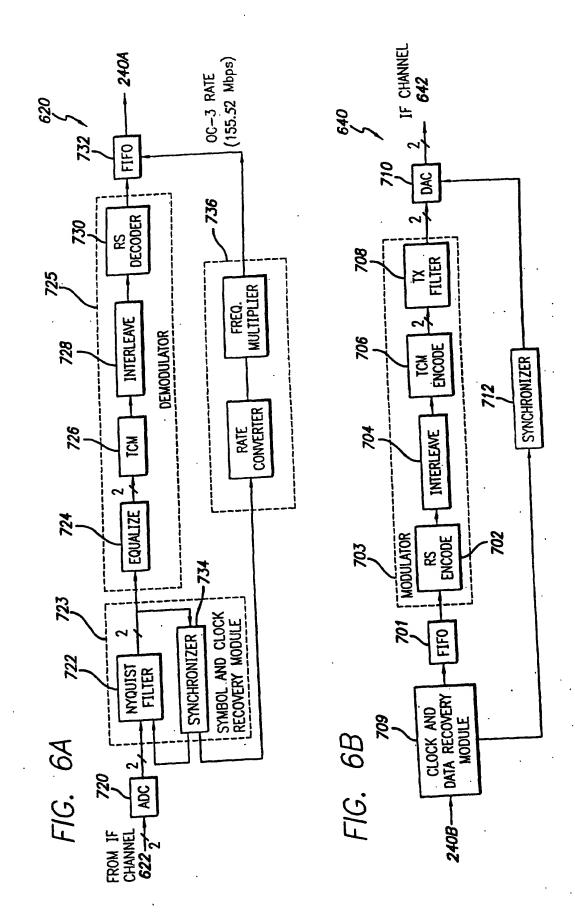
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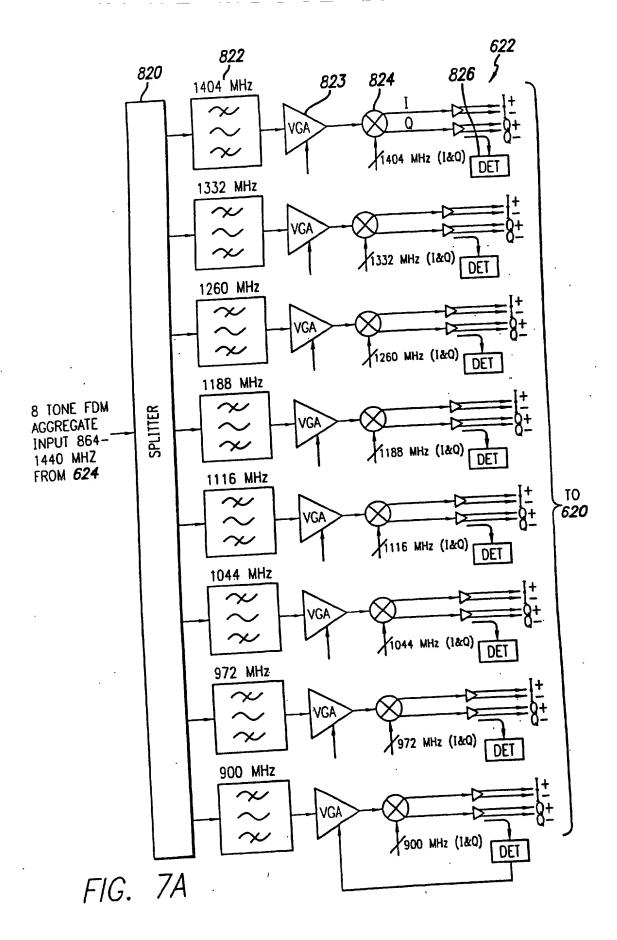
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Docket No.: 20852-05135

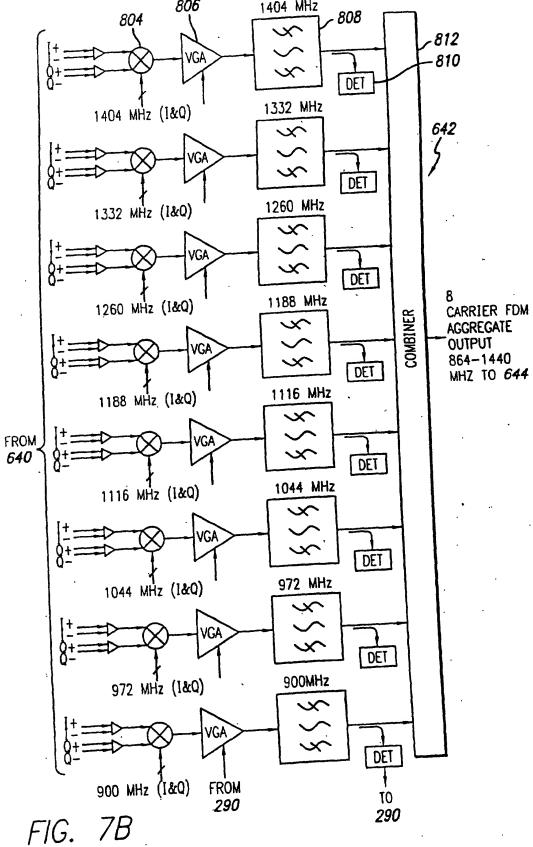


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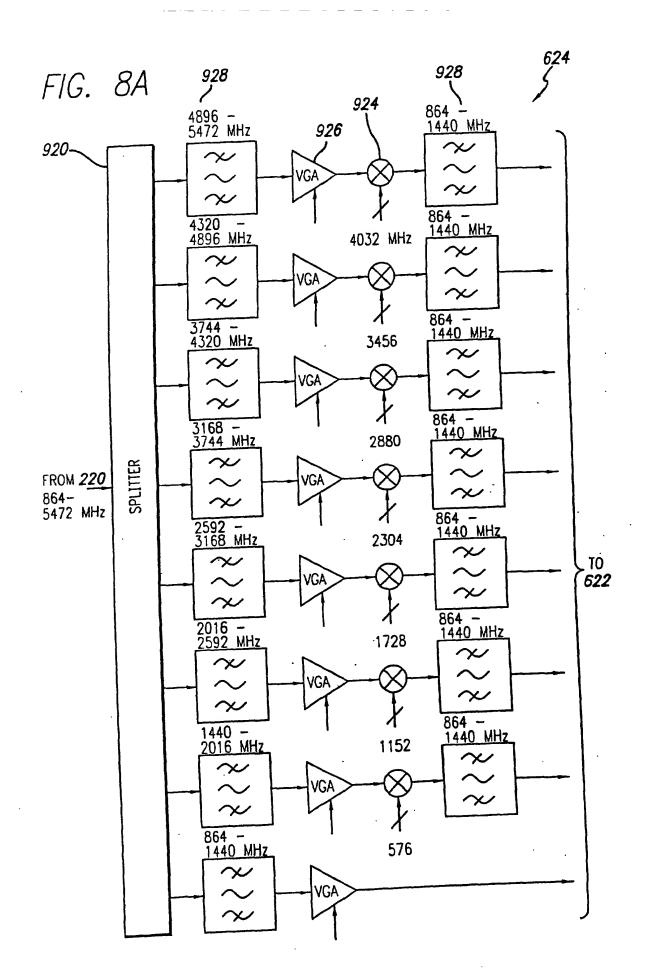
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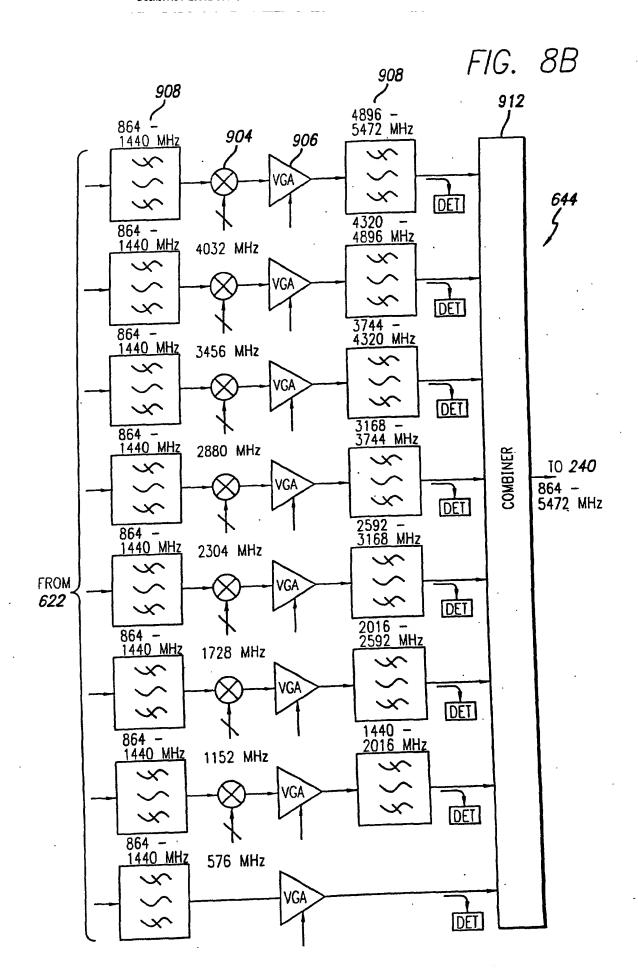
VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL
COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING
Inventors: Shen, Clarke, Jr., Roman, Upham, Pechner and Newell
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2430 (0)1215 COUNT 0 10 6 7 Addition SW Stuff B2 Additional HW Bit-rate ID Suff B1 a/b Super-Supperdet#1 Suppediet#2 A1/A2 01 Hag Frame Flag Parity Parity Overhead Code Code Overhead #1 2 2 SI Νī \$2 N2 3 LENGTH

AVA2bytes-SONETheader for STS3.

Additional SWOverhead-6bytes

Actitiaanal HWOverhead-9bytes

Subpacted-target bytes carried in frame. Two subpackets to reduce system later by.

Stuff-stuff bytestofill unused parts of packet.

Parity-1 byte parity for performance moritoring.

N1-subpedset 1 byte court

N2-s.hpadet.2byteccurt

N1+N2=N(taget signal bytesper frame)

SI-Suff#lbytecourt

\$2-Stuff#2bytecount

X-Suff#lendcourt.Memorymappedregister

Y-Suff#Zerdcourt.MemoryMeppedregister

T-Taget Sgral Data Rate

N=T/(8kl-tz)*(1/8)*(1/4) bytesfirame

\$1+\$2 =2430-N-32 bytesframe

Figure 9

VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING Inventors: Shen, Clarke, Jr., Roman, Upham, Pechner and Newell Docket No. 20852-05135

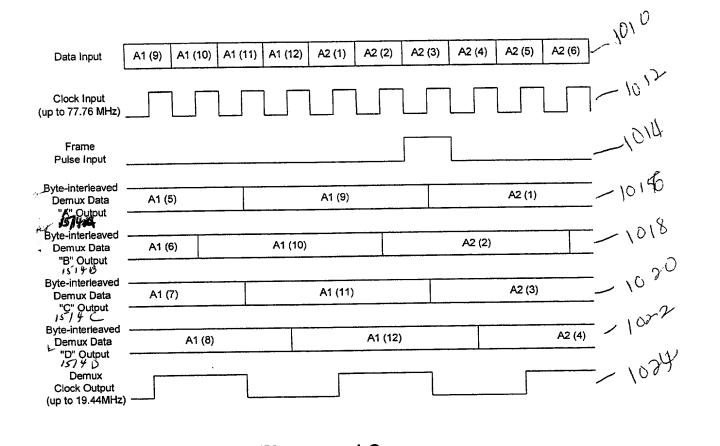


Figure 10

VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL
COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING
inventors' Shen, Clarke, Jr., Roman, Upham, Pechner and Newell
Docket No.: 20852-05135

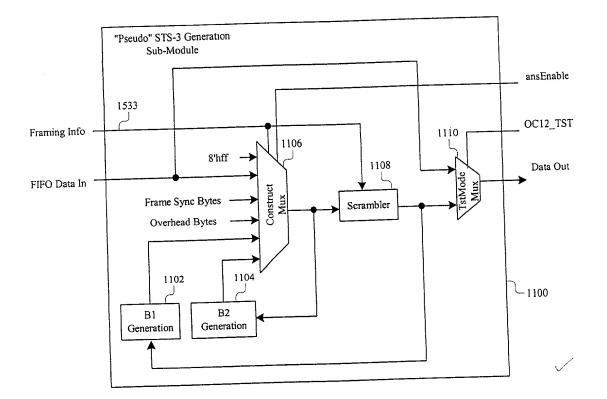


Figure 11

VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING Inventors: Shen, Clarke, Jr., Roman, Upham, Pechner and Newell Docket No. 20852-05135

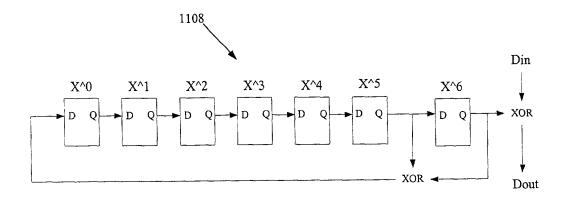


Figure 12

VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING Inventors: Shen, Clarke, Jr., Roman, Upham, Pechner and Newell

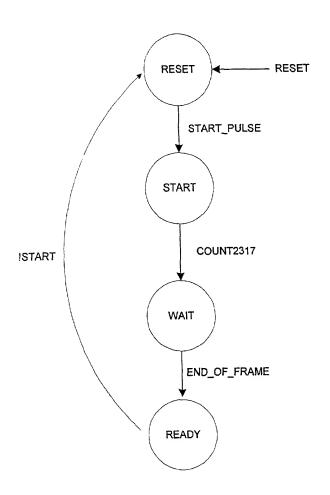


Figure 13

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VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL
COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING
Inventors. Shen, Clarke, Jr., Roman, Upham, Pechner and Newell

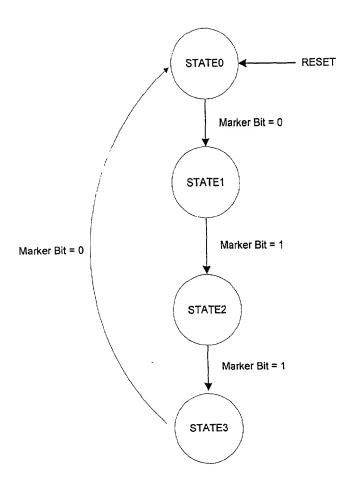
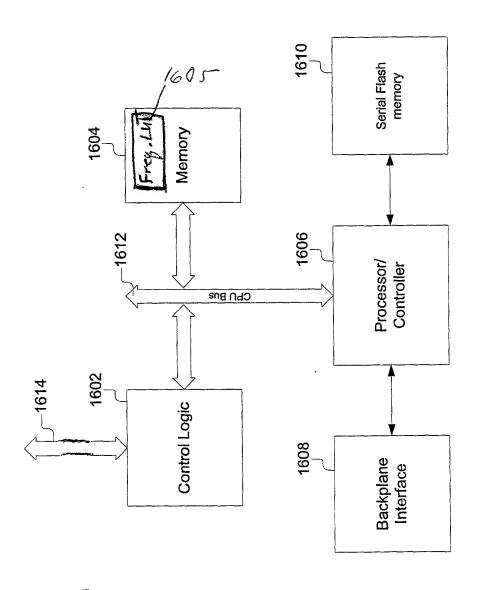


Figure 14

VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING Inventors: Shen, Clarke, Jr., Roman, Upham, Pechner and Newell Docket No. 20852-05135



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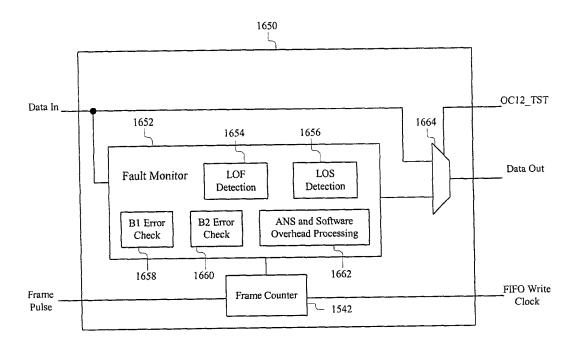


Figure 16

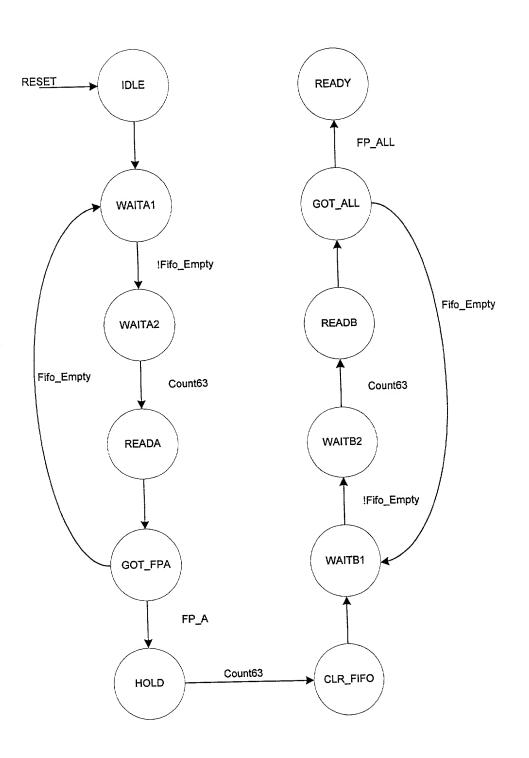


Figure 17

VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL COMMUNICATION NETWORKS UTILIZING FREQUENCY DIVISION MULTIPLEXING Inventors: Shen, Clarke, Jr., Roman, Upham, Pechner and Newell Docket No. 20852-05135

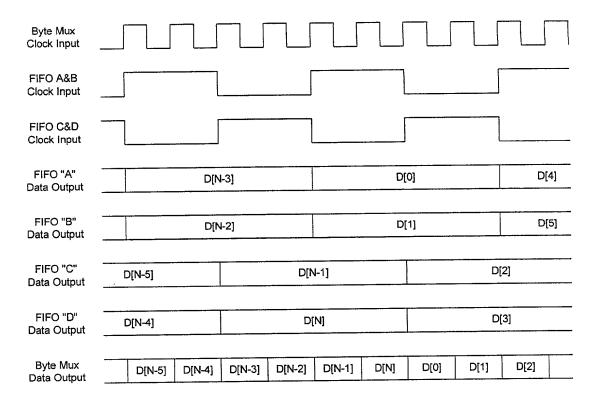


Figure 18